

Wellesley, MA, August 20, 2012

Press Release

## **Lexitek Assigns Diffractive Optic Patent**

Lexitek, Inc. announced that it recently assigned U.S. Patent No. 5,734,502 “Achromatic Diffractive Optic.” Invented by Lexitek’s president, Steven Ebstein, this technology enables fabrication of diffractive optics useful over a broad spectral range with high diffraction efficiency and high contrast imaging without ghosts or flare. This patent has been cited in applications originally assigned to Canon, Symbol Technologies, Matsushita/Panasonic, Nikon, and others.

Diffractive lenses use a thin layer to directly modify the phase of a beam of light for focusing, as opposed to typical lenses where the curvature of the lens bends the light rays, thus offering potential for size, weight, or cost savings compared to typical optics.

According to Ebstein, “diffractive optics technology has long held great promise for reducing the size and weight of compound lenses by compressing the function of one or more lenses into a thin layer. One barrier to adoption has been that conventional diffractive optics only work well for a single wavelength such as is emitted by a laser. Our patented Near-Index-Match™ technology enables fabrication of diffractive lenses for broad bandwidths such as the white light used for ordinary photography. We believe that assignment of this patent will expand the applications of this technology thereby making the advantages of diffractive optics available to broader segments of the market.”

This assignment does not affect Lexitek’s current products which employ Near-Index-Match™ technology.

About Lexitek: Lexitek, Inc. is a privately held R&D company. Lexitek develops innovative optical and electro-optical technologies and instruments for research and medical applications including adaptive optics and high-resolution optical and radiation imaging. Lexitek was incorporated in 1994 and is located in Wellesley, MA. For more information, visit [www.lexitek.com](http://www.lexitek.com), email [info@lexitek.com](mailto:info@lexitek.com) or call 781-431-9604.